

Att #1 TDS

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 3833.5US	Application Number To be assigned
Applicant Fallaux et al.		
Filing Date July 30, 2001		Group Art Unit To be assigned

09/30/01
 07/30/01
 09/30/01
 07/30/01

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<div style="font-size: 2em;">R</div>	#4,405,712	09/20/83	Vande Woude et al.			
	#4,497,796	02/05/85	Salser et al.			
	#4,727,028	02/23/88	Santerre et al.			
	#4,740,463	04/26/88	Weinberg et al.			
	#5,190,931	03/02/93	Inouye			
	#5,208,149	05/04/93	Inouye			
	#5,378,618	01/03/95	Sternberg et al.			
	#5,518,913	05/21/96	Massie et al.			
	#5,545,522	08/13/96	Van Gelder et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<div style="font-size: 2em;">R</div>	#2,053,187	04/11/93	Canada				
	#WO 94/08026	04/14/94	PCT				
	#WO 94/11506	05/26/94	PCT				
	#WO 94/12649	06/09/94	PCT				
	#WO 94/23582	10/27/94	PCT				
	#WO 94/24297	10/27/94	PCT				
	#WO 94/26914	11/24/94	PCT				
	#WO 94/28152	12/08/94	PCT				
	#WO 94/28938	12/22/94	PCT				
	#WO 95/00655	01/05/95	PCT				
	#2 707 664	01/20/95	France				
<div style="font-size: 2em;">/</div>	#WO 95/02697	01/26/95	PCT				
	#95201611.1	06/15/95	EP				

EXAMINER <div style="font-size: 1.5em; font-family: cursive;">Dm</div>	DATE CONSIDERED <div style="font-size: 1.5em; font-family: cursive;">2/21/03</div>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

(2-92)

Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Serial No.: 09/506,548

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For: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT ADENOVIRUS TO BE USED IN GENE THERAPY, which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Dr</i>	#5,652,224	07/29/97	Wilson et al.			
	#5,670,488	09/23/97	Gregory et al.			
	#5,707,618	01/13/98	Armentano et al.			
	#5,753,500	05/19/98	Shenk et al.			
	#5,837,511	11/17/98	Falck-Pedersen et al.			
	#5,994,106	11/30/99	Kovesdi et al.			
	#5,994,128	11/30/99	Fallaux et al.			
<i>Dr</i>	#6,033,908	03/07/2000	Bout et al.			
	#6,040,174	03/21/2000	Imler et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<i>Dr</i>	#WO 95/16772	06/22/95	PCT				
	#95201728.3	06/26/95	EP				
	#2,117,668	09/10/95	Canada				
	#WO 95/26411	10/05/95	PCT				
	#WO 95/27071	10/12/95	PCT				
	#WO 95/34671	12/21/95	PCT				
	#AU-A-28533/95	03/21/96	Australia				
	#WO 96/13596	05/09/96	PCT				
	#WO 96/14061	05/17/96	PCT				
	#WO 96/16676	06/06/96	PCT				
	#WO 96/18418	06/20/96	PCT				
	#WO 96/33280	10/24/96	PCT				
	#WO 96/40955	12/19/96	PCT				
	#WO 97/00947	01/09/97	PCT				
<i>Dr</i>	#WO 97/04119	02/06/97	PCT				
	#WO 97/05255	02/13/97	PCT				

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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<i>DF</i>		#Amalfitano et al., "Improved adenovirus packaging cell lines to support the growth of replication-defective gene-delivery vectors", <u>Proc. Natl. Acad. Sci. USA</u> , 93:3352-3356, April 1996.
		#Amalfitano et al., "Isolation and characterization of packaging cell lines that coexpress the adenovirus E1, DNA polymerase, and preterminal proteins: implications for gene therapy", <u>Gene Therapy</u> , 4:258-263, 1997.
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		#Bernards, Rene, et al., "Characterization of Cells Transformed by Ad5/Ad12 Hybrid Early Region 1 Plasmids", <u>Virology</u> , 120:422-432, 1982.
		#Bernards, Rene, et al., "Role of Adenovirus Types 5 and 12 Early Region 1b Tumor Antigens in Oncogenic Transformation", <u>Virology</u> , 127:45-53, 1983.
		#Brough et al., "A Gene Transfer Vector-Cell Line System for Complete Functional Complementation of Adenovirus Early Regions E1 and E4", <u>Journal of Virology</u> , 70(9):6497-6501, September 1996.
		#Brough et al., "Construction, Characterization, and Utilization of Cell Lines Which Inducibly Express the Adenovirus DNA-Binding Protein", <u>Virology</u> , 190:624-634, 1992.
		#Brough et al., "Multiple Functions of the Adenovirus DNA-Binding Protein Are Required for Efficient Viral DNA Synthesis", <u>Virology</u> , 196:269-281, 1993.
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		#Brough et al., "Stable Cell Lines for Complementation of Adenovirus Early Regions E1, E2A and E4; Abstract Book CSH Conference On Gene Therapy, 42, 1996.
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		#Engelhardt et al., "Ablation of E2A in recombinant adenoviruses improves transgene persistence and decreases inflammatory response in mouse liver", <u>Proceeding of the National Sciences of USA</u> , Vol. 91, pp. 6196-6200, 1994.
		#Fallaux et al., "Characterization of 911: A New Helper Cell Line for the Titration and Propagation of Early Region 1-Deleted Adenoviral Vectors", <u>Human Gene Therapy</u> , 7:215-222, 1996.
		#Fields et al., "Fields Virology", Second Edition, pp. 28-30-87. <i>no publication date</i>
		#Fisher et al., "Recombinant Adenovirus Deleted of All Viral Genes for Gene Therapy of Cystic Fibrosis", <u>Virology</u> , 217:11-22, 1996.
<i>✓</i>		#Gao et al., "Biology of Adenovirus Vectors with E1 and E4 Deletions for Liver-Directed Gene Therapy", <u>Journal of Virology</u> , 70(12):8934-8943, December 1996.

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<i>aw</i>		#Gorziglia et al., "Elimination of both E1 and E2a from Adenovirus Vectors Further Improves Prospects for In Vivo Human Gene Therapy", <u>Journal of Virology</u> , 70(6):4173-4178, June 1996.
		#Graham, F.L., et al., "Characteristics of a Human Cell Line Transformed by DNA from Human Adenovirus Type 5", <u>J. gen. Virol.</u> , 36:59-74, 1977.
		#Grodzicker, Terri, et al., "Expression of Unselected Adenovirus Genes in Human Cells Co-transformed with the HSV-1 tk Gene and Adenovirus 2 DNA", <u>Cell</u> , 21:453-463, September 1980.
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		#Lemarchand et al., "Adenovirus-mediated transfer of a recombinant human α 1-antitrypsin cDNA to human endothelial cells", <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 89, pp. 6482-6486, July 1992.
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		#Ngo et al., "in The Protein Folding Problem and Tertiary Structure Prediction", Merz et al., (ed.), Birkhauser, Boston, MA, pp. 433 and 492-495, 1994.
<i>f</i>		#Orkin et al., "Reports and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy", 21 pages, December 7, 1995.
<i>f</i>		#Roberts, Bryan E., et al., "Individual Adenovirus Type 5 Early Region 1A Gene Products Elicit Distinct Alterations of Cellular Morphology and Gene Expression", <u>Journal of Virology</u> , pp. 404-413, Nov. 1985.

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
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		#Rosenfeld et al., "In Vivo Transfer of the Human Cystic Fibrosis Transmembrane Conductance Regulator Gene to the Airway Epithelium", <u>Cell</u> , Vol. 68, pp. 143-155, January 10, 1992.
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		#Vos et al., "Characterization of Adenovirus Type 5 Insertion and Deletion Mutants Encoding Altered DNA Binding Proteins", <u>Virology</u> , 172, pp. 634-642, 1989.
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		#Weinberg et al., "A cell line that supports the growth of a defective early region 4 deletion mutant of human adenovirus type 2", <u>Proc. Natl. Sci. USA</u> , Vol. 80, pp. 5383-5386, September 1983.
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		#Zhou et al., "Development of a Complementing Cell Line and a System for Construction of Adenovirus Vectors with E1 and E2a Deleted", <u>Journal of Virology</u> , 70(1):7030-7038, October 1996.

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